

Title (en)
USE OF A HOSE AND USE OF A POLYAMIDE COMPOSITION FOR PREPARING AN INNER LAYER OF THE HOSE COMING INTO CONTACT WITH HIGH-PRESSURE HYDROGEN

Title (de)
VERWENDUNG EINES SCHLAUCHS UND VERWENDUNG EINER POLYAMID-ZUSAMMENSETZUNG ZUR HERSTELLUNG EINER INNEREN SCHICHT DES SCHLAUCHS DIE MIT HOCHDRUCK-WASSERSTOFF IN KONTAKT KOMMT

Title (fr)
UTILISATION D'UN TUYAU ET UTILISATION D'UNE COMPOSITION DE RÉSINE POLYAMIDE POUR PRÉPARER UNE COUCHE INTERNE DU TUYAU ENTRANT EN CONTACT AVEC DE L'HYDROGÈNE SOUS HAUTE PRESSION

Publication
EP 3222668 B1 20230719 (EN)

Application
EP 15860931 A 20151026

Priority
• JP 2014235139 A 20141120
• JP 2015080094 W 20151026

Abstract (en)
[origin: EP3222668A1] A polyamide resin composition for a molded article exposed to high-pressure hydrogen contains a polyamide resin (A) including a unit derived from hexamethylenediamine and a unit derived from an aliphatic dicarboxylic acid of 8 to 12 carbon atoms and an ethylene/±-olefin copolymer (B) modified with an unsaturated carboxylic acid and/or a derivative thereof. Provided is a polyamide resin composition that can provide a molded article having excellent flexibility and heat cycle resistance and less likely to suffer failure points despite repeated charging and discharging of high-pressure hydrogen.

IPC 8 full level
C08L 23/26 (2006.01); **C08L 51/06** (2006.01); **C08L 77/06** (2006.01); **H01M 8/04** (2016.01)

CPC (source: EP KR US)
B32B 1/08 (2013.01 - KR); **C08G 69/26** (2013.01 - KR); **C08L 23/26** (2013.01 - EP KR US); **C08L 51/06** (2013.01 - EP KR US); **C08L 77/06** (2013.01 - EP KR US); **F16L 11/10** (2013.01 - US); **F16L 57/06** (2013.01 - US); **H01M 8/04** (2013.01 - EP US); **C08L 2203/18** (2013.01 - KR); **C08L 2205/06** (2013.01 - US); **Y02E 60/50** (2013.01 - EP)

Citation (examination)
• DE 102005061530 A1 20070712 - EMS CHEMIE AG [CH]
• EP 3069871 A1 20160921 - EVONIK DEGUSSA GMBH [DE]
• EP 3069873 A1 20160921 - EVONIK DEGUSSA GMBH [DE]

Cited by
WO2021152253A1; FR3106646A1; FR3124428A1; WO2023275465A1; EP3816230B1

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